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### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/31/2008

Pauley Petersen & Erickson 2800 W. Higgins Road Suite 365 Hoffman Estates, IL 60195 EXAMINER

NORMAN, MARC E

ART UNIT PAPER NUMBER

3744 DATE MAILED: 03/31/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/525.551	02/24/2005	Michael Nicolai	VO-701	6056

TITLE OF INVENTION: LIQUID COOLING SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/30/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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7590 03/31/2008							ling or transmission.	
Pauley Peterse 2800 W. Higgin Suite 365	s Road		I her State addr trans	reby certify that thes Postal Service wessed to the Mail smitted to the USP	tificate is Fee( vith suf Stop FO (57	e of Mailing or Transn s) Transmittal is being ficient postage for first ISSUE FEE address a 1) 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.	
Hoffman Estate	s, IL 60195							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVE	NTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/525,551	02/24/2005	•	Michael Nicola	i			VO-701	6056
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	06/30/2008
EXAM	MINER	ART UNIT	CLASS-SUBCLAS	S				
NORMAN	I, MARC E	3744	062-129000					
PLEASE NOTE: Un	nce or agents OR, alte  (2) the name of a registered attorne 2 registered paten listed, no name w	pear on the patent. If an assignee is identified below, the document has been filed for						
(A) NAME OF ASSI	GNEE		(B) RESIDENCE: ( be printed on the patent):	CITY	and STATE OR C		,	np entity 🖵 Government
4a. The following fee(s)	are submitted:		4b. Payment of Fee(s):		se first reapply ar	ıy prev	riously paid issue fee s	nown above)
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			Payment by cred	<ul> <li>☐ A check is enclosed.</li> <li>☐ Payment by credit card. Form PTO-2038 is attached.</li> <li>☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number</li></ul>				
5. Change in Entity Sta	ntus (from status indicate ns SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·		o long	ger claiming SMAI	LL EN	ΓΙΤΥ status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be ac ites Patent and Trade	cepted from anyone other temark Office.	han tl	he applicant; a regi	stered :	attorney or agent; or the	assignee or other party in
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Typed or printed name					-			
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22	ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DC	CFR 1.311. The info 5 U.S.C. 122 and 37 be USPTO. Time will rden, should be sent D NOT SEND FEES	rmation is required to obtai CFR 1.14. This collection I vary depending upon the t to the Chief Information ( GOR COMPLETED FORM	n or r is est indiv Office AS TO	etain a benefit by t imated to take 12 t idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ minutes mment Traden S. SENI	ic which is to file (and to complete, including s on the amount of tim nark Office, U.S. Depar D TO: Commissioner for	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

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75	590 03/31/2008		EXAM	INER	
Pauley Petersen	& Erickson	NORMAN, MARC E			
2800 W. Higgins F		ART UNIT	PAPER NUMBER		
Suite 365	L 60195		3744 DATE MAILED: 03/31/2008		

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 525 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 525 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/525,551	NICOLAI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Dr. Marc E. Norman	3744	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to and MPEP 1308.	plication. If not included will be mailed in due course. <b>THIS</b>	
1. This communication is responsive to <u>amendment filed 1/14</u>	<u>1/08</u> .		
2. $\boxtimes$ The allowed claim(s) is/are 2,3,7 and 13-16.			
3.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5.  CORRECTED DRAWINGS (as "replacement sheets") must (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the such such as the policy of the such such in the such sheet. Replacement sheet(s) should be labeled as such in the such such such such such such such such	been received.  been received in Application No cuments have been received in this  of this communication to file a reply IENT of this application.  itted. Note the attached EXAMINER es reason(s) why the oath or declarate bet be submitted.  on's Patent Drawing Review ( PTO- as Amendment / Comment or in the Comment	national stage application from the complying with the requirements  'S AMENDMENT or NOTICE OF tion is deficient.  948) attached  Office action of the back) of	
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r	nust be submitted. Note the	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), te	

# REASONS FOR ALLOWANCE

#### **Drawings**

The drawings received on 14 January 2008 overcome the objections set forth in the Office Action of 9 October 2007 are accepted. New Figure 2 is fully supported by the specification as set forth on page 3 of the amendment of 14 January 2008. No new matter has been added.

### Allowable Subject Matter

Claims 2, 3, 7, and 13-16 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art (and in particular the combination of Chu et al. and Brodie et al.) does not teach the liquid cooling system combination as recited in new independent claim 15, and in particular comprising a section of the central liquid line system attached to a vertical frame leg of the rack or switchgear cabinet, wherein a receptacle, open over its length in a direction toward an interior of the rack or switchgear cabinet, is integrated on or into the frame leg, and the section of the central liquid line system is inserted into the receptacle.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 3744

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dr. Marc E. Norman whose telephone number is 571-272-4812.

The examiner can normally be reached on Mon.-Fri., 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cheryl Tyler can be reached on 571-272-4834. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MN

/Dr. Marc E. Norman/

Primary Examiner, Art Unit 3744